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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2019-12-19-45** **Date: 15-11-19**

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 11-11-19

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 12-11-19

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.1	–
2	Finess by Air permeablity method (m^2/kg,Min)	284.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	0.28	Not specified
5	Initial Setting time	180 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2019-12-19-45 **Date: 15-11-19**

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 11-11-19

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	189	189	1.3	98.7	90-100
3	20 mm	7284	7473	49.8	50.2	30-70
4	10 mm	4089	11562	77.1	22.9	10-35
5	4.75 mm	3001	14563	97.1	2.9	0-5
6	Pan	437	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-12-19-45** **Date: 13-11-19**
Project Name	:	Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010
Customer Reference	:	BBMP/EE/YNK.D/W.O/170/2019-20
Date of Receipt	:	11-11-19
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	11-11-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	199	199	4.0	96.0	90-100
3	10 mm	3050	3249	65.0	35.0	25-55
4	4.75 mm	1502	4751	95.0	5.0	0-10
5	Pan	249	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-12-19-45

Date: 13-11-19

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 11-11-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 11-11-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID : **CP-2019-12-19-45**

Date: 18-11-19

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 16-11-19

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 16-11-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Date: 26-11-19

Lab ID	:	**CP-2019-12-19-45**
Project Name	:	Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/170/2019-20
Date of Receipt	:	22-11-19
Sample Type /Size	:	Precast Cover Slab (250mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	22/11/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	180.9	5.7	5.3	6.7
2	Cover Slab-2	200.49	250.52	3.122	31564	182.3	5.8	5.4	6.7
3	Cover Slab-3	200.50	250.51	3.118	31567	181.5	5.7	5.3	6.7

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Date: 02-12-19

Lab ID	:	**CP-2019-12-19-45**
Project Name	:	Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/170/2019-20
Date of Receipt	:	27-11-19
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	27/11/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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Format No: CP/TF/01

: CP-2019-12-19-45

Date: 17/12/2019

: Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

: BBMP/EE/YNK.D/W.O/170/2019-20

: 21-11-19

: Drain Bottom Slab Concrete

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 17/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	150.31 X 150.05 X 151.68	22553	8.272	524.8	23.3	23.3
2	Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	149.75 X 149.52 X 149.37	22391	8.293	507.3	22.7	
3	Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	150.87 X 149.74 X 151.09	22592	8.091	538.3	23.8	

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Format No: CP/TF/01

: CP-2019-12-19-45

Date: 17/12/2019

: Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

: BBMP/EE/YNK.D/W.O/170/2019-20

: 21-11-19

: Drain Bottom Slab Concrete

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 17/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	149.64 X 150.56 X 150.21	22530	8.272	529.2	23.5	23.2
2	Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	150.40 X 151.43 X 151.96	22776	8.293	503.1	22.1	
3	Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	151.69 X 149.08 X 150.64	22613	8.091	541.4	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-19-45 Date: 17/12/2019

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	149.83 X 149.45 X 150.50	22393	8.272	520.1	23.2	23.1
2	Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	150.43 X 150.39 X 149.03	22622	8.293	505.7	22.4	
3	Drain Bottom Slab Concrete	M20	19/11/2019	17/12/2019	151.73 X 151.15 X 149.50	22934	8.091	542.9	23.7	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-19-45

Date: 26/11/2019

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.19 X 150.87 X 149.59	22810	8.870	429.0	18.8	18.4
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.50 X 150.27 X 150.79	22617	8.128	413.6	18.3	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.22 X 149.71 X 151.42	22639	8.372	410.0	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-19-45 **Date: 30/11/2019**

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.68 X 150.70 X 151.83	22557	8.176	420.6	18.6	18.5
2	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.20 X 150.06 X 149.85	22689	8.624	425.4	18.7	
3	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.48 X 151.27 X 150.84	22612	8.451	412.1	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2019-12-19-45

Date: 21/12/2019

: Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

: M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

: BBMP/EE/YNK.D/W.O/170/2019-20

: 25-11-19

: Drain Side Wall Concrete

: 150X150X150 mm

: M20 / 28 Days Compressive Strength

: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 21/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	151.66 X 150.21 X 149.18	22780	8.095	526.8	23.1	23.3
2	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	149.14 X 151.26 X 150.82	22559	8.993	518.8	23.0	
3	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	151.48 X 149.78 X 149.39	22688	8.362	542.8	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-19-45 **Date: 30/11/2019**

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.15 X 150.81 X 149.93	22493	8.176	410.6	18.3	18.3
2	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.00 X 149.05 X 149.38	22506	8.624	411.7	18.3	
3	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	150.04 X 150.90 X 149.13	22641	8.451	412.5	18.2	

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-19-45 **Date: 21/12/2019**

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	150.88 X 149.37 X 151.08	22536	8.095	528.4	23.4	23.1
2	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	149.90 X 150.37 X 151.27	22541	8.993	511.1	22.7	
3	Drain Side Wall Concrete	M20	23/11/2019	21/12/2019	149.19 X 151.65 X 151.08	22624	8.362	525.1	23.2	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-19-45

Date: 30/11/2019

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 25-11-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.72 X 151.92 X 151.63	22745	8.176	416.5	18.3	18.5
2	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.05 X 150.65 X 151.88	22454	8.624	425.7	19.0	
3	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	149.87 X 151.46 X 151.51	22700	8.451	410.4	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-19-45

Date: 02/12/2019

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 27-11-19

Customer ID : Culvert Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Bottom Slab Concrete	M20	25/11/2019	02/12/2019	150.10 X 150.75 X 151.55	22627	8.775	426.7	18.9	18.5
2	Culvert Bottom Slab Concrete	M20	25/11/2019	02/12/2019	149.29 X 150.37 X 151.92	22449	8.875	413.6	18.4	
3	Culvert Bottom Slab Concrete	M20	25/11/2019	02/12/2019	150.46 X 151.74 X 150.96	22830	8.654	416.8	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/12/2019

Lab ID	:	**CP-2019-12-19-45**
Project Name	:	Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/170/2019-20
Date of Receipt	:	30-11-19
Customer ID	:	Culvert Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	28/11/2019	26/12/2019	150.64 X 151.38 X 150.38	22804	8.212	540.4	23.7	23.2
2	Culvert Side Wall Concrete	M20	28/11/2019	26/12/2019	151.23 X 149.00 X 149.82	22533	8.059	508.1	22.5	
3	Culvert Side Wall Concrete	M20	28/11/2019	26/12/2019	151.90 X 150.97 X 149.84	22933	8.061	533.6	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-19-45 **Date: 05/12/2019**

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 30-11-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	28/11/2019	05/12/2019	151.54 X 149.82 X 149.89	22704	8.510	429.7	18.9	18.6
2	Culvert Side Wall Concrete	M20	28/11/2019	05/12/2019	151.68 X 150.04 X 151.02	22758	8.626	415.4	18.3	
3	Culvert Side Wall Concrete	M20	28/11/2019	05/12/2019	151.14 X 151.40 X 150.02	22884	8.551	423.0	18.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/11/2019

Lab ID : CP-2019-12-19-45

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.87 X 150.81 X 150.48	22752	8.870	420.7	18.5	18.4
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.49 X 151.77 X 149.95	22687	8.128	416.1	18.3	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.39 X 151.95 X 150.72	22699	8.372	414.7	18.3	

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Format No: CP/TF/01

Lab ID : CP-2019-12-19-45

Date: 26/11/2019

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.05 X 150.51 X 149.86	22735	8.870	424.8	18.7	18.6
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.98 X 151.05 X 151.48	22805	8.128	426.7	18.7	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.83 X 149.91 X 150.14	22611	8.372	415.1	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-19-45

Date: 26/11/2019

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.85 X 149.87 X 151.55	22458	8.870	411.9	18.3	18.5
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.22 X 150.65 X 149.18	22781	8.128	425.2	18.7	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	151.72 X 149.04 X 150.37	22613	8.372	420.1	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-12-19-45 **Date: 26/11/2019**

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 21-11-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	149.58 X 150.16 X 150.03	22460	8.870	413.6	18.4	18.4
2	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.60 X 149.51 X 149.88	22517	8.128	424.0	18.8	
3	Drain Bottom Slab Concrete	M20	19/11/2019	26/11/2019	150.27 X 151.27 X 150.44	22732	8.372	410.8	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/11/2019

Lab ID	:	CP-2019-12-19-45
Project Name	:	Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division
Agency	:	M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/170/2019-20
Date of Receipt	:	25-11-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.37 X 149.53 X 151.23	22635	8.176	428.4	18.9	18.8
2	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	150.17 X 149.67 X 151.39	22476	8.624	415.9	18.5	
3	Drain Side Wall Concrete	M20	23/11/2019	30/11/2019	151.86 X 151.17 X 151.70	22956	8.451	435.5	19.0	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/11/2019

Lab ID	:	CP-2020-01-07-24
Project Name	:	Improvements to Roads and Drains at AK Colony and Surrounding Areas in Ward No. 01 of Yelahanka Sub Division
Agency	:	M/s. Technical Manager (West) KRIDL, Bangaluru, 5th Block 17th Main Shivakumar Swamy Building, Bhashyam Circle Banglaore:560010
Customer's Reference	:	BBMP/EE/YNK.D/W.O/161/2019-20
Date of Receipt	:	23-11-19
Customer ID	:	Drain Bottom Slab Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/11/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	21/11/2019	28/11/2019	150.75 X 151.65 X 149.48	22860	8.820	429.4	18.8	18.5
2	Drain Bottom Slab Concrete	M20	21/11/2019	28/11/2019	150.80 X 149.17 X 151.60	22495	8.880	409.2	18.2	
3	Drain Bottom Slab Concrete	M20	21/11/2019	28/11/2019	150.99 X 150.49 X 151.60	22723	8.275	421.2	18.5	

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Format No: CP/TF/01

Lab ID : CP-2019-12-19-45

Date: 26/12/2019

Project Name : Improvements to roads and drains at Nagenahalli SC/ST Colony and surrounding areas in Ward No. 02 of Yelahanka Sub division

Agency : M/s. Technical Manager (West), KRIDL, Bangaluru, 5th Block, 17th Main Shivakumar Swamy Building, Bhashyam Circle Bangalore: 560010

Customer's Reference : BBMP/EE/YNK.D/W.O/170/2019-20

Date of Receipt : 30-11-19

Customer ID : Culvert Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete	M20	28/11/2019	26/12/2019	151.27 X 150.84 X 149.63	22817	8.212	534.7	23.4	23.0
2	Culvert Side Wall Concrete	M20	28/11/2019	26/12/2019	150.51 X 149.19 X 151.27	22456	8.059	497.1	22.1	
3	Culvert Side Wall Concrete	M20	28/11/2019	26/12/2019	151.07 X 149.58 X 149.62	22596	8.061	529.5	23.4	

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FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig Date BANGALORE

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****End of Report****

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